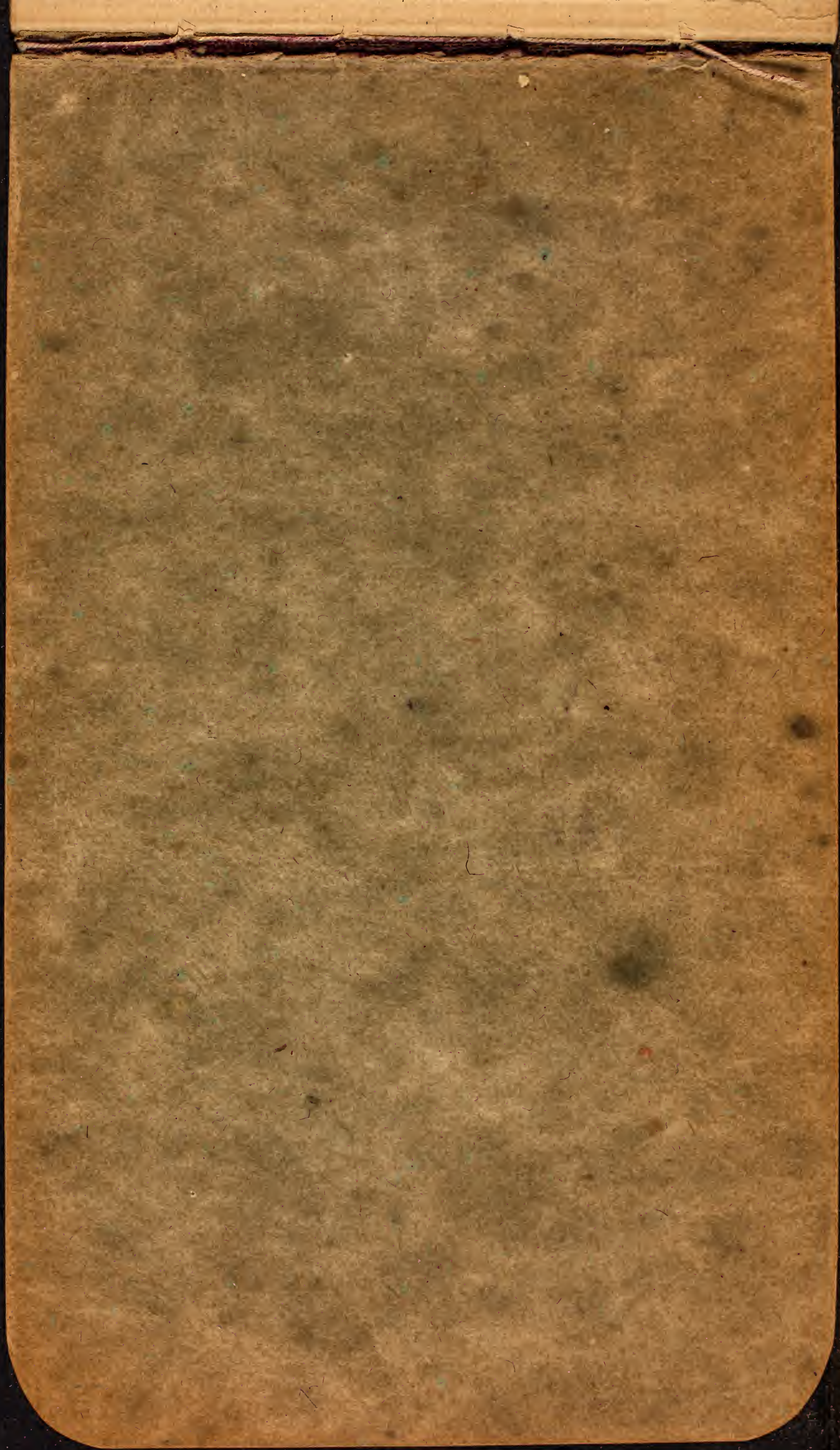


Botanical Notes

Grey town

Phanerogams

no. 5.

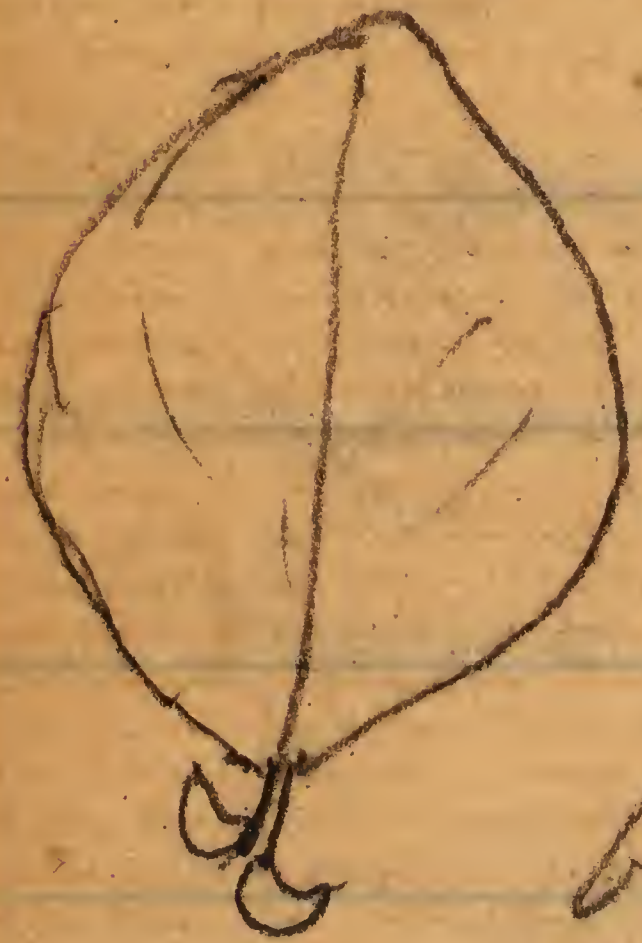


42

1.

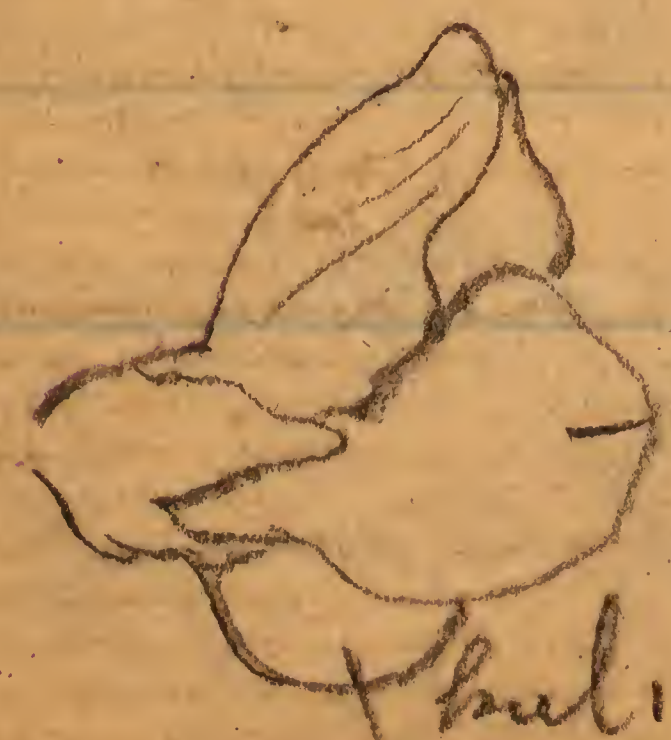
Astragalus

Plant 8-18^(?) in. high,
branching, herb, or subfrut.
Stem green, very short hairy,
somewhat winged or ridged.
Lvs. alt, 2 ranks, sessile
smooth, stip.



x1

Fls. in short
term. racemes, pale
bluish wht. with rather
short pedicels & small bracts

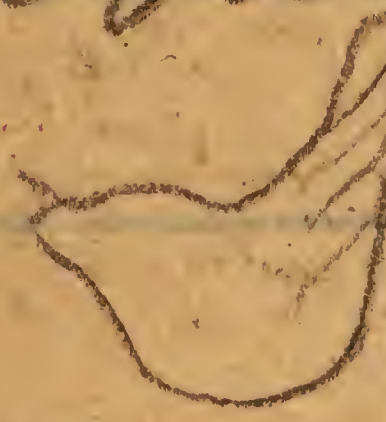


wing

petal

Standard
brown, rounded,
obtusely lined
with deeper blue
2 fold at base.

wings deeper purple above
obtus, free,

 Keel x1 (purple line at tip)

coherent, inclining stem & petal
twisted at end.

Ovary green, sparsely hairy,
stigma small, linear.

Style whitish, smooth.

 x1

Calyx purple, 5 lobes, lobes
lance, acute, greenish
smooth, lowest largest.

Stamen 10, monadelph, (stilt
above) filaments white,
smooth, anther yellow, small.

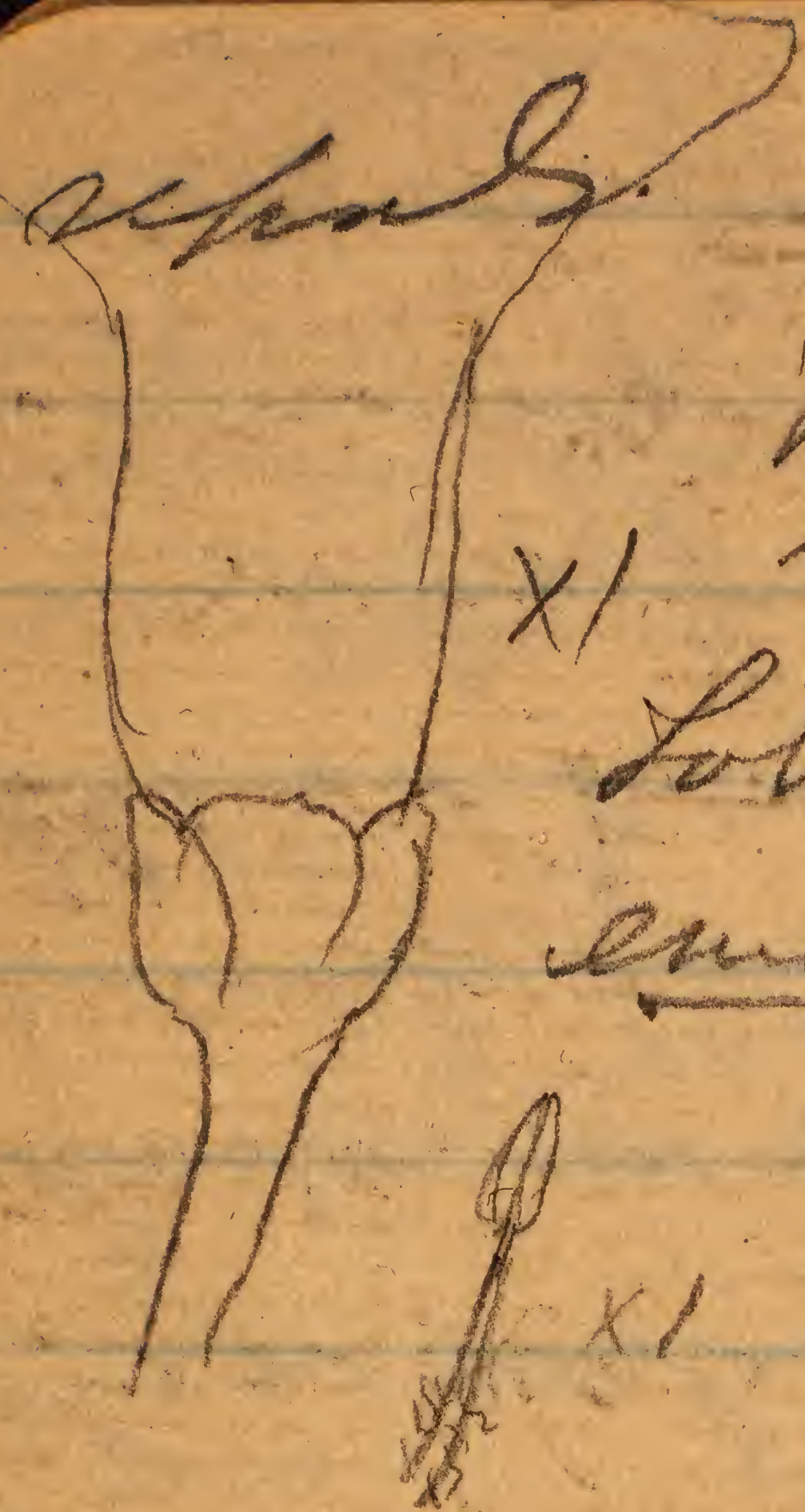
Root a simple tap
near Lexington along R.R. etc.

2

The great long Sphumata.
Form once 144 ft. long.
Vine smooth, milky, pointed,
purplish green.

Leaves alt, pet. 2' long,
blade cordate, rounded,
emarginate. Smooth, minutely
entire.

Fls. in axils, few flowers
cluster a green smooth
petiole $1\frac{1}{2}$ - 2 in. long.
Fl. $1\frac{1}{2}$ - $1\frac{3}{4}$ in long, red, corolla
unlobed, five shallow lobes,
tube inflated, border
not very broad.
Calyx of 5 green ovate, ^{top}
cuneate, red margins



Fls. in
few flower
umbels (?)

Lobs of corolla broad,
emarginate.

Stamens 5, white,
fil. hairy at
base, anthers

innate, 2-celled,
included.

Stamens opposite (4), on
very base of corolla.

Style slender, stigma
large, bushy; all
white

Ovary superior, smooth,
on yellow disc.

Ovary 3-celled.
On sand at America

3.

White morning glory.

Or sands at America.

Vine slender, prostrate,
10' long.

Leaves alt.
slightly serrate,
smooth.



Fls. mostly solitary

in ax-b (or in few fl. clusters)

Corolla white, of the usual
morning glory form

Pedicels fleshy = calyx.

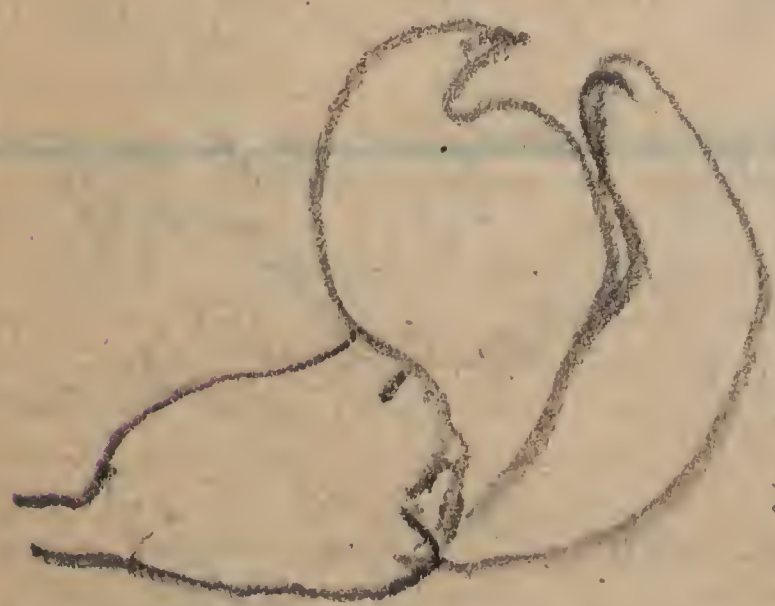
Calyx of 5 acum. green,
ovate shapes.

(See fruit.)

4

Large pea - 8"-10"
long, prostrate on sands
at America (sea front)
Stem nearly smooth (very short
appressed hairs) green,
Lvs. all. pet. $1\frac{1}{2}$ " long
Leaves 3, oblong, rounded
entire, smooth, bluishish,
about equal, middle one
long petioled.

Fls. in axillary racemes,
usually 2 from one axil.
Corolla bright red.



x1.

Part all
whitish lower
tube.

Standard strongly emarginate
broad. Wings adhesion
to keel, obtuse, red.
Keel coherent, inclining
stamens & pist.

Antenna yellow, renate, 2-lobed,
fil. white, smooth
Stamens 1+9, though in
the fl. that I examined
they seemed to cohere.

XI

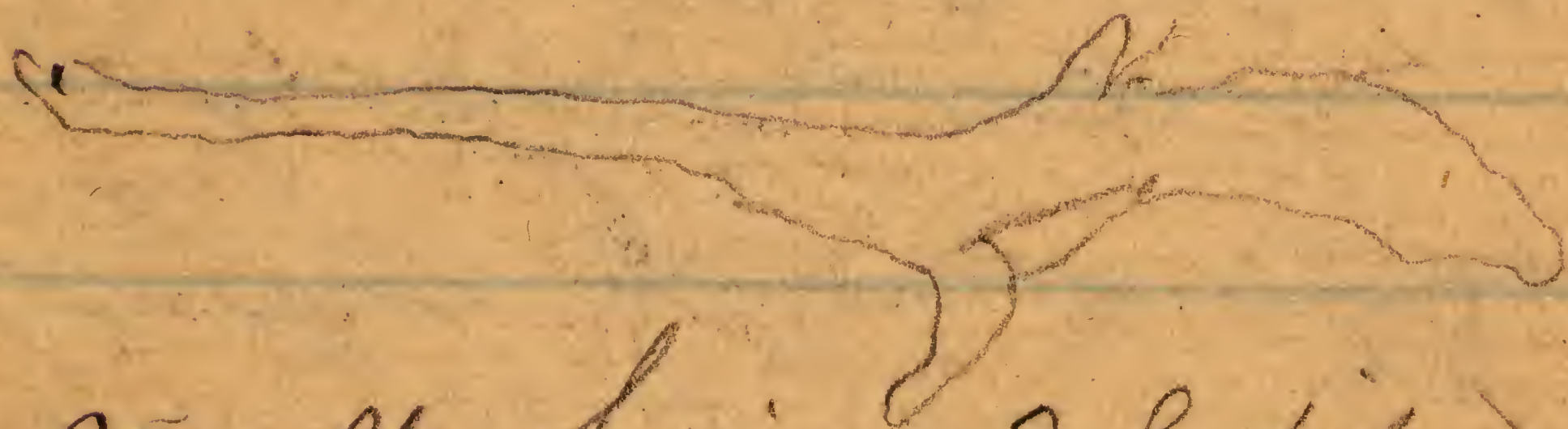
Ovary smooth, greenish,
style white, smooth,
 stigma minute, bearded.

Calyx green, smooth,
with 5 short broad
lobes.

5.

The red-flowered Epiphyte
on trees at Camp Menocal.
Plant 6'-18' long, rooting
at joints, all hairy, stem
lvs, fls.

(General app. of that jointed
Epiphyte from Castillo.)



corolla hairy, 2 lipped,
Larger lip 3-lobed, middle lobe
largest, (obtus?) (2 tips)
lateral lobes triangular.
Smaller lip. short scarcely,

if at all, lobed.

Style long slender, white, hairy
toward tip, stigma capitate,
small, — longer than corolla
stamen 4, attaches at very
base to corolla (?), filaments
long, slender, red,
very sparsely hairy, anthers
2 celled, each cell 2-lobed,
uninucleate.



calyx x1

Calyx green,
hairy, monophyllous,

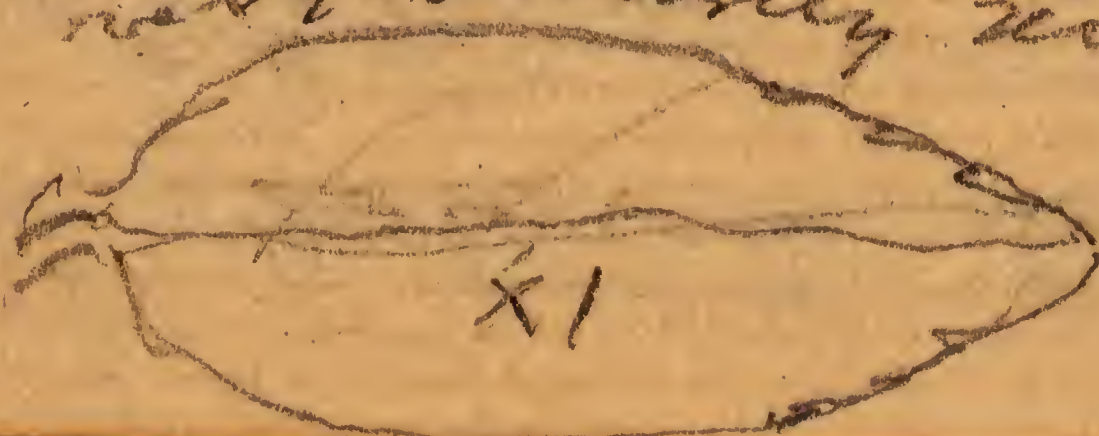
deeply 5-lobed, lobes

acute, lance.

Flower in axils (solitary)

on short thick peduncle.

Stem brown. Leaves opp.
hairy, ^{very obscurely serrate}



x1

Stipules scale-like (sheath-
like) light brown.

~~the~~

Form the fleshy-flowered
tree (same as that in
Swamp at Mogygalta
on which Gustave got
his lures) at Guyton.

Also the Siberian crab
like Pome - small
tree (found at Mogygalta)

Also the blue-flowered
shiny (glaxy) plant
at Castello - found at
Greenwood.

6.

The shrub - 2°-6° high, on
sand at American, with
West Ind. Plum fruit (see
fruit in alc.)

Stem brown, with light
lenticels - Lvs. all-
obovate, tip broad &
slightly emarginate, entire
smooth, thickish

Very short brown petiole; no
stip. fls. in short

axillary cyme clusters
fls. sessile on the short thick
branches of flowering stem.

Calyx of 2 small, ovate,

acute greenish sepals.
(These are bracts).

There are 5 greenish sepals
(possibly monosep.) +

5 white petals.

The flower is like
that of the West Ind.
Plum as I remember.

Grey town.

See fruit.

7-

Shrub 10-20 high, with
fruit like Hop-tree.

On sands at America.
Fls. in short, compound,

thyme-like cluster —
greenish. Bracts
fleshy, narrow.
Receptacle = to fl.

♂ fl. x. Sepals 4, lance-ovate,
greenish, obtusish.
Stamens 8, white, 2-celled,
yellow, = sepals, introrse.
Ovary 3-celled, 3 angled,
each cell more than 10 angled
(few), superior,
smooth. Style exserted,
thickish, stigma terminal.

See front

~~Ampl. 1000~~

8.

Low yellow Composite at
Greystown.

Plant 3'-8" high, branched
erect.

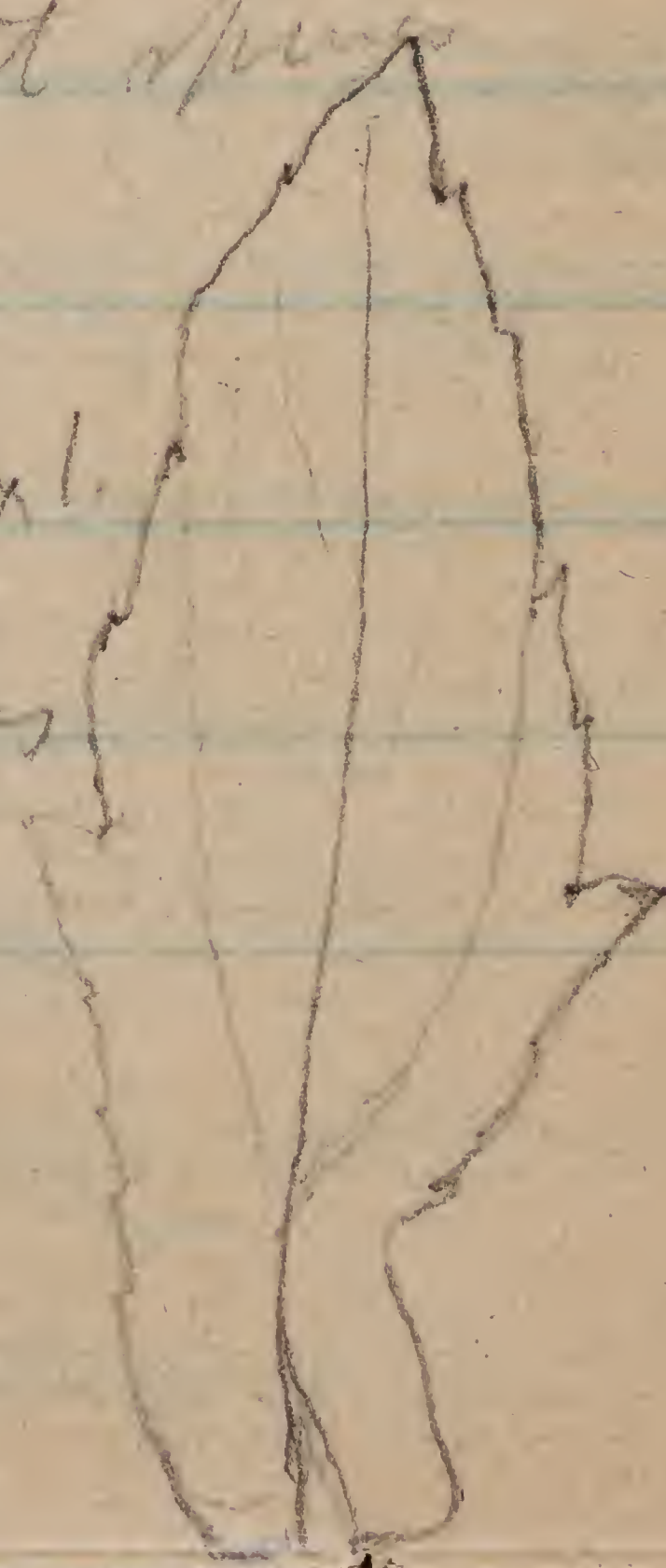
Stem decumbent green, cylindrical
with white hairs, sparse
below.

Low sp., slightly caespitose,
erect, with short spines
above. The teeth

sharp pointed. Leaf x1.

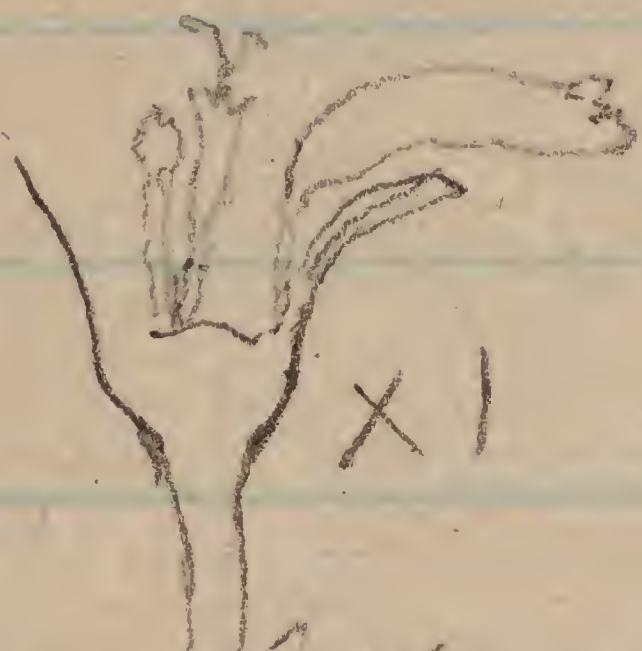
Heads term. branches

or stem, with
about 8 rays
& a good many
disc flowers.

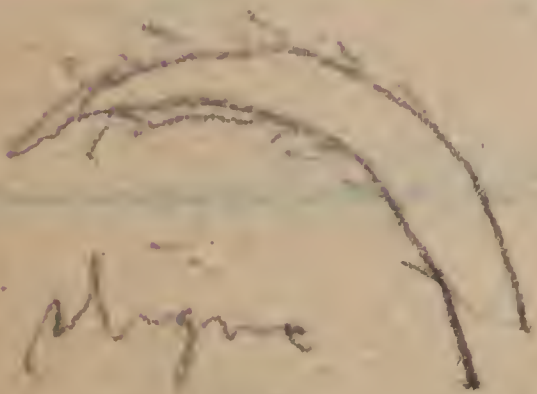
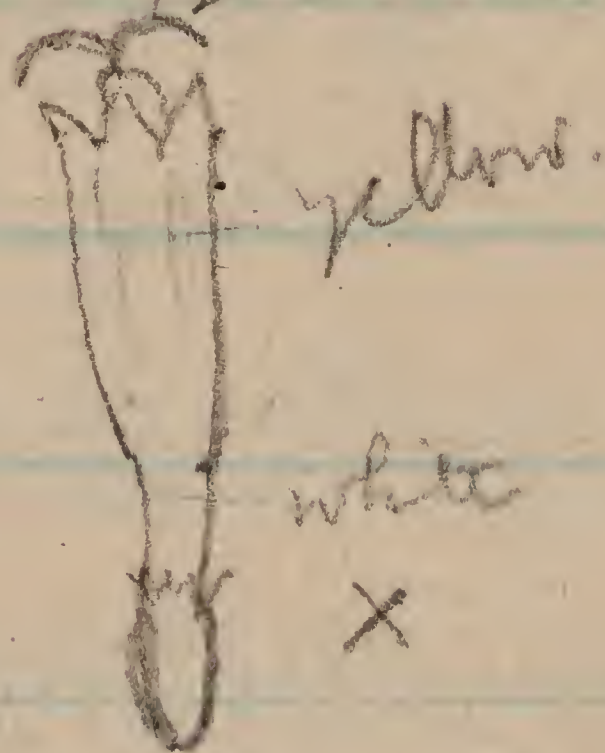
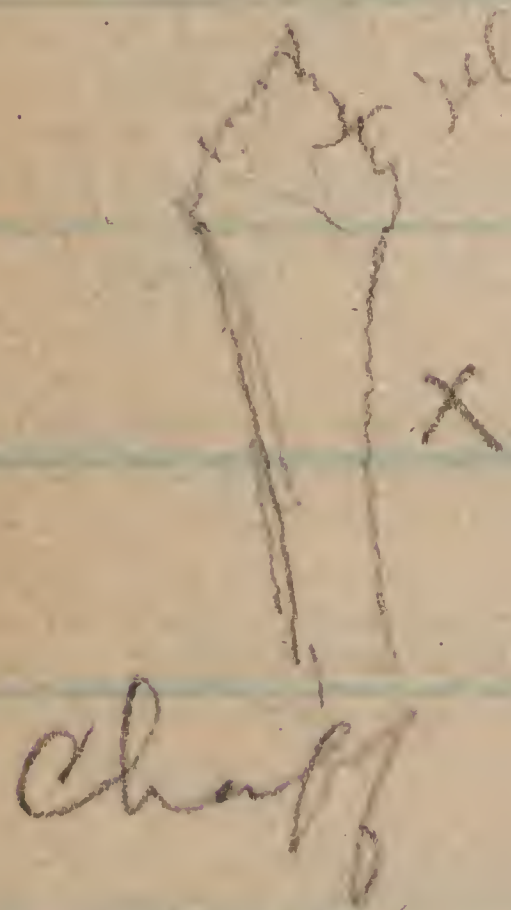


disc flowers.

~~Root~~ Invol. of few
green, lanceolate hairy
acute scales, less than rays,
somewhat spreading &
foliaceous, in one or two rows.



Chaff of white scales, with
yellow, broader,
serrate tips.

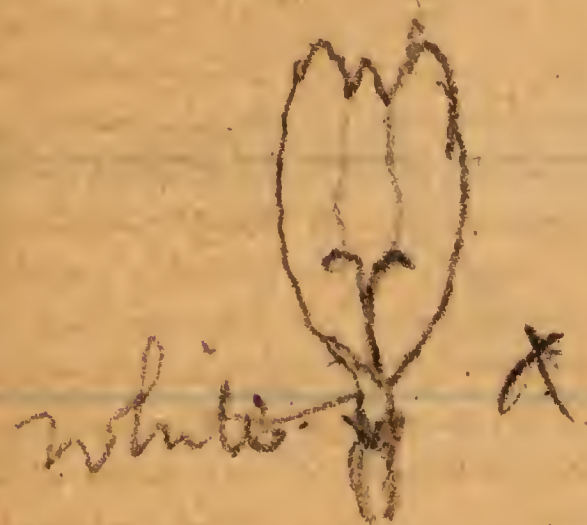


Disc flower regular
5 lobed, lobes hairy,
yellow, pappus of
short scale-like hairs

or bristles, a beine smooth,
somewhat compressed

Stamen dark (almost black)

Stigmas yellow, hairy, brach
not very large

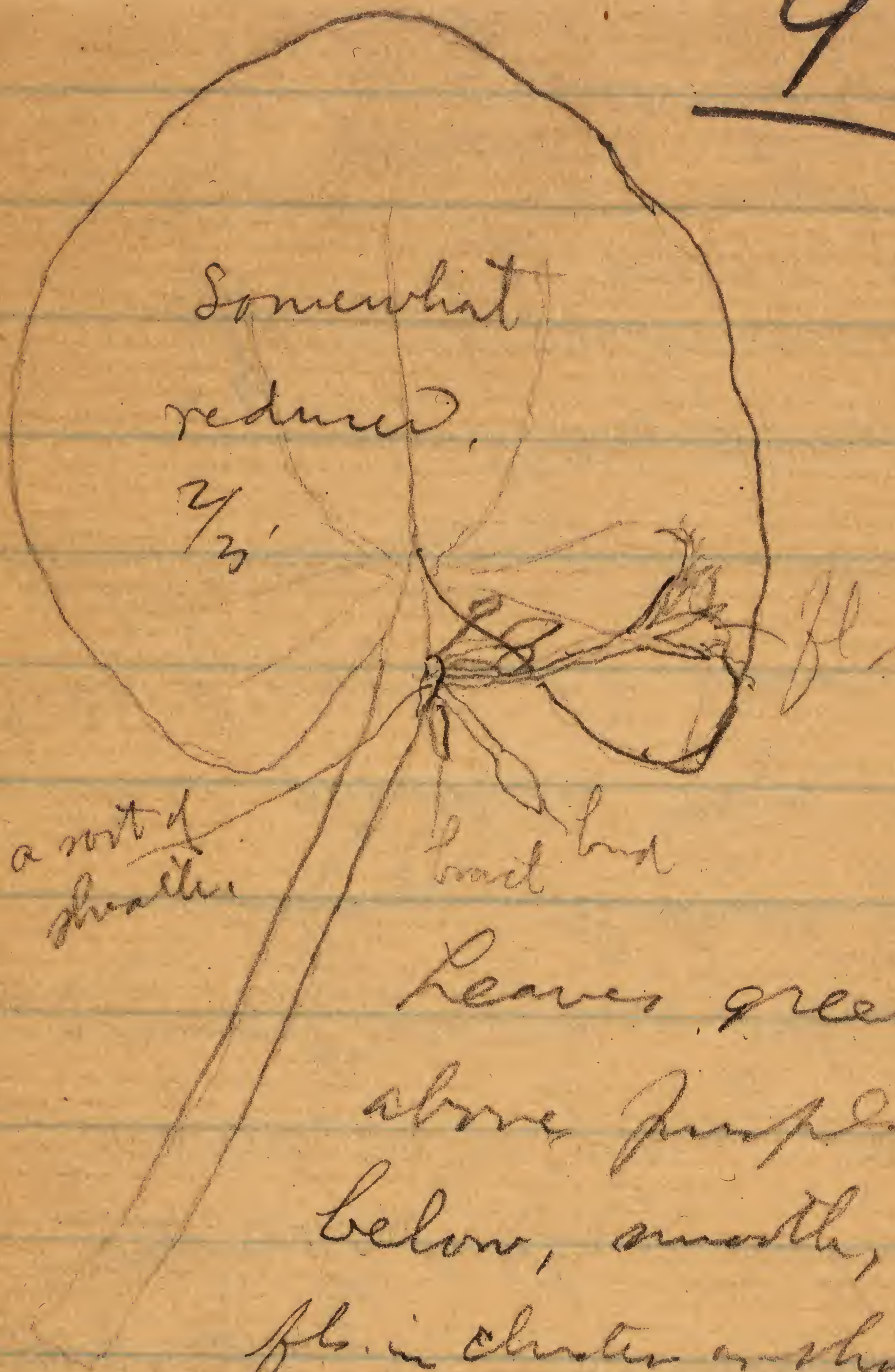


Rays yellow, about 3,

bead at tip, pistillate.

smooth.

9



Somewhat
reduced,
 $\frac{2}{3}$ '

a sort of
sheath

small bud

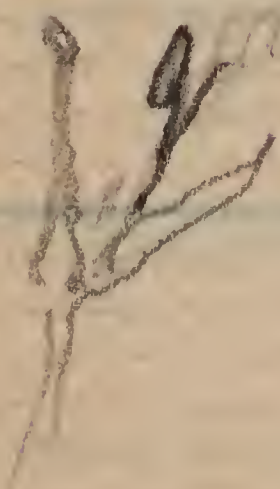
fl.

Leaves green
above purplish
below, smooth, entire.
fl. in cluster as shown
above. Reduced thickened
clay-like,

Sepals 5, green, lanceolate,
obtus, smooth.

Corolla monopetal, deeply 5
lobed, white, lobes lance,
acute, with very many white
fleshy hairs above,
yellow in tube inside -
stamens 5, alt, anthers
2 cells, dehis long, introrse
almost reach to tube of
corolla. A tuft of
yellow glandular hairs on
tube of corolla at base,
alternating with stamens.

Ovary green,



mouth superior,

style tapering, mouth,

greenish, stigma

white, 2-lobed

irreg. Ovary one-celled,
2 parietal placentae,
ovules numerous.

Grows in water &
swamp - America, etc.

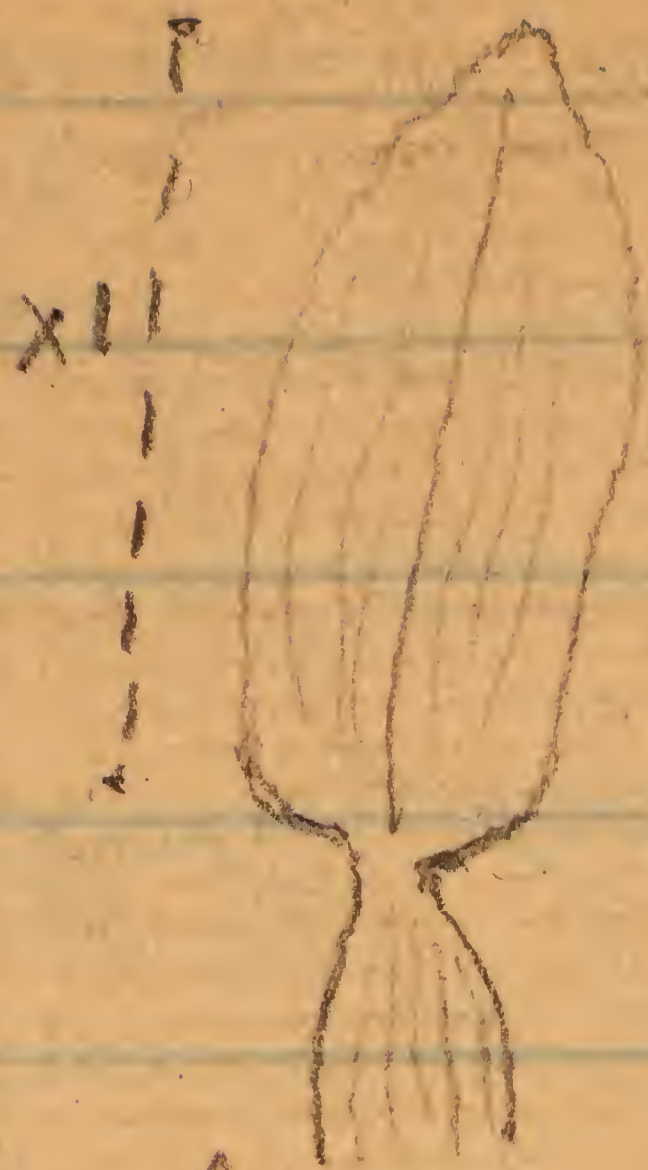
10

Small, blue-flowered Compositae
(seem to have more than the
2 large erect petals)

6'-8' high,

Stem smooth, dark green,
stipules membranous, closely
appressed, brownish, ragged,
sheathing.

Leaves alternate



Leaf with sheath split &
 opened. Leaf green, covered
 above & below with a sort
 of granular hairs (very
 short.) The bract?

enclosing flower is regularly
 heart-shaped, green smooth,

acute, & (doubled over)
 Fls. 2 or 3 (in each bract)

These "bracts" with flowers
 spring from nodes

instead of leaves, & are
"petioled".

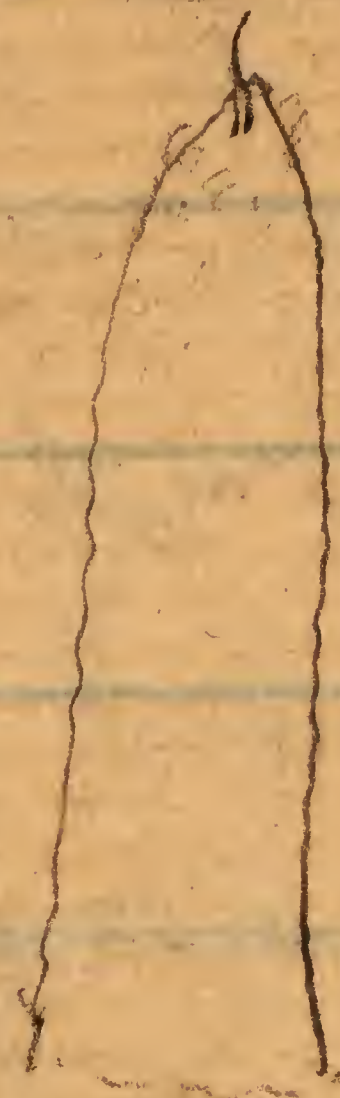
The upper leaves are
sometimes more deeply
cordate.

II.

The tall plant with
alt. lvs., looking like
my spicy, twisted, glandular
like plant from La Juana
The plant is 40-70" high;
the odor not so pleasant, &
top is not terminal.

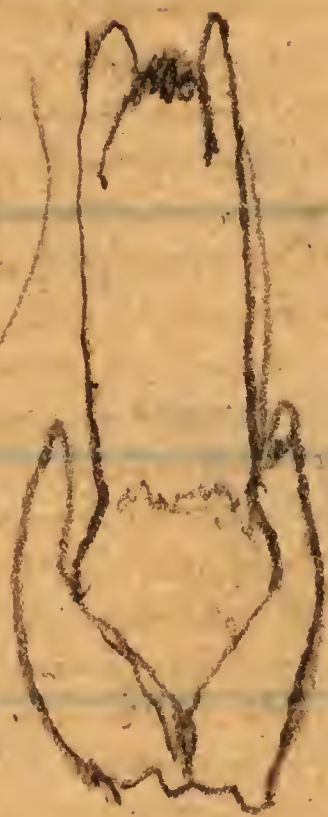
Graytown

fls. orange reddish,
in close terminal spikes,
bracts long,
orange yellow
short hairy.



bract x 1
(not all have
the bristle)

(old fl.)



p. x 1

Fl. sessile

~~calyx of 2~~ bracts
brownish, hairy, ~~at base~~

each beaked

calyx mucrop. in fls below,
2-lipped, somewhat, 3 lobed, hairy
lobes. inferior

another flower has 3 lobed
calyx x yellowish 3 lobed

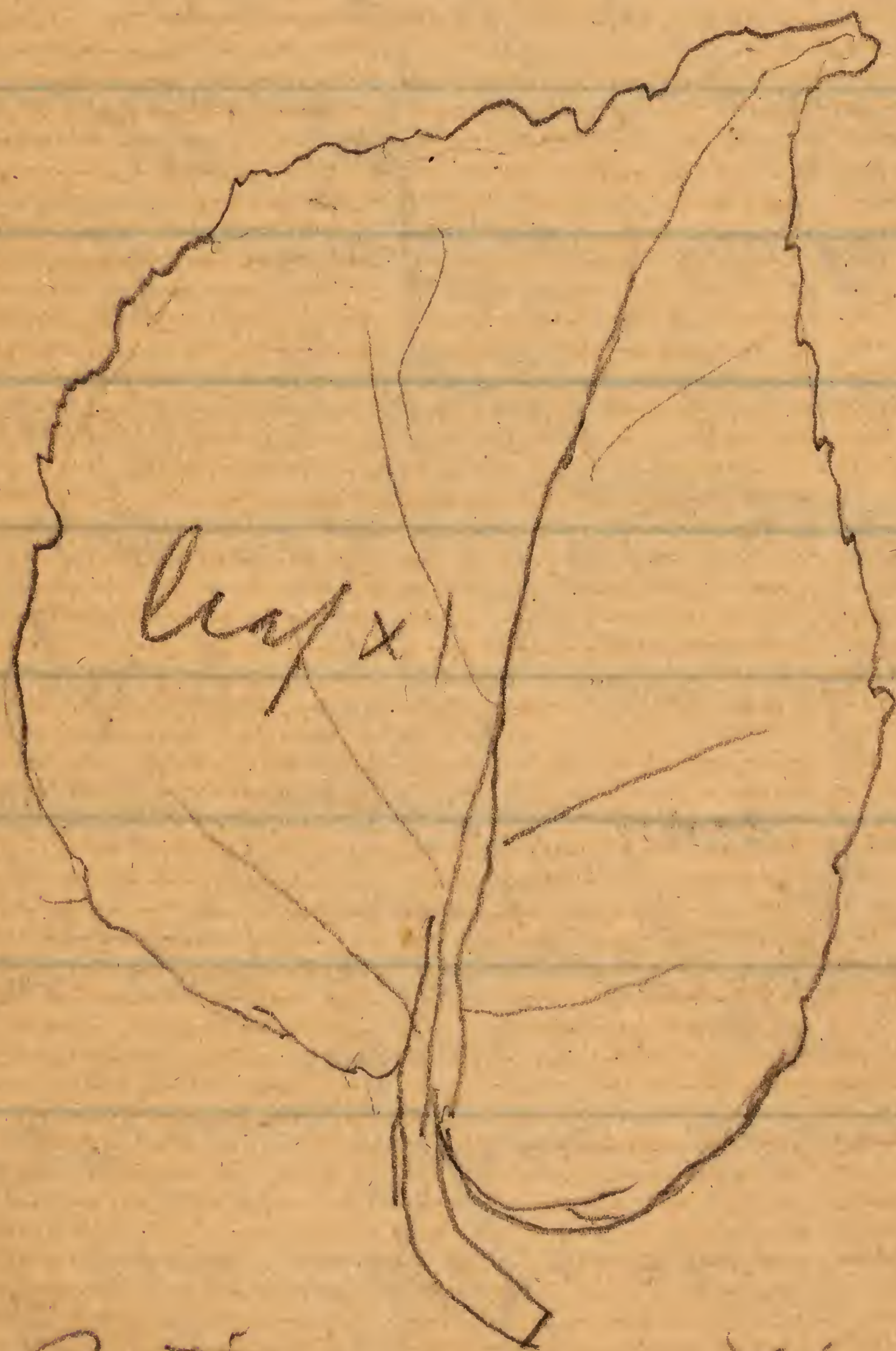
corolla (from upper part
of cluster).

In this there seems to be
one very large anther between
whose 2 parts lies the slender
style & flat, reddish & white
 stigma. Ovary superior
ovicelled? with parallel plac.
The 2 anther cells, (or
anthers?) are joined to
a flat body which
is almost like another
lobe of corolla.

Lvs. all, sheathing
the stem, ellip. lance
ovate, entire, smooth,
parallel veins acute.

12.

Begonia, with fls. in
panicle - growing
erect, branching;
Lvs. alt, stip. large,
membranous.



Petiole smooth, red.

blade light green,
mouth (shining) both
sides. Fl. stalks

more less shiny.

Camp Menocal,
(see front)

Found the yellow fl.
shrub (at first like
Undulifer) of
Castillo at Camp
Menocal.

Blue. fl. shrub - Menzies.
 Fls. in term. cyme (thyrse
 like) shrub spreading,
 4'-8' high.

Lvs. opp., obovate (rather
 narrow) entire, acuminate,
 smooth above,
 hairy below, 6'-8' long.
 Stems rather large, obtuse,
 greenish, hairy. Petioles
 short, hairy, fl. stem hairy.



fl. not seen yet.
 Corolla blue, short
 hairy, 5 short
 lobes.

Stamens 5, alt. fil. short.
 anthers whitish, 2-celled, introrse.
 Corolla tube white hairy.

inside, except at base.

Stamens included.

Y 2) ovary superior, smooth,
Style white, smooth, 2 lobed
stigma 2- (sem. B.), white

flat, valved.

No ray fls., disc fls.

Pink.

15

Herb 4'-6' high, bright blue
berries. Menstrual.

Entire plant with scattered
leaves. Lvs. opp. petioles
ovate, acutely entire. 2' long (with pet.)
Pet. slightly winged

Wh. shp. fls. nearly sessile, 2 or

3 in each axil,
calyx inferior, 4 narrow green
lobes. ovary 1-celled, 2
par. placentae.

Blue. fl. shrub - Menzies.
 Fls. in term. cyme (Thymelae
 like) shrub spreading,
 4'-8' high.

Lvs. opp., obovate (rather
 narrow) entire, acuminate,
 glaucous, smooth above,
 hairy below, 6'-8' long.
 Stems rather large, obtuse,
 greenish, hairy. Petioles
 short, hairy, fl. stem hairy.

... in fruit.
 ovules small & very many & look
 like on a free-central
 placenta. Calyx short
 green, hairy, 5 lobed;
 lobes Δ acute.

14

Herb pink composite
Erect stem - lettuce-like
not milky (✓)
Pappus of white awns
Green hairs - recept.
Flat, entire.
No ray fls., disc fls.
Pink.

15

Herb 4'-6' high, bright blue
hairs - Menstrual.
Entire plant with scattered
hairs. Lvs. opp. petioled
ovate, acutely entire. 2' long (with pet.)
Pet. slightly winged
V. shp. fls. nearly sessile, 2 or
3 in each axil,
calyx superior, 4 narrow green
lobes. ovary 1-celled, 2
par. placentae.

Send Mr. Harris
papers to Castillo
but everything else
to Greytown.

Send ^{H.V.} Mr. Miedley
shells. (make out
a set of smaller
ones.)

Thurs.

Sat.

Mon.

PROMENADE

PASS
BOOK

